

Windows - NT Advisory Group (NTAG) Task Plan Update to the AOG

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Purpose

- Present an update on the NTAG and the CY 2002 Task Plan
- Solicit organizations to work with the NTAG on tasks toward a common set of goals

Background

- Sponsored by ESC/DIJ, Software Infrastructure Product Area Directorate (GCCS-AF PMO)
- Meet quarterly in Washington D.C. area
- To get on NTAG list server send an email to:
LISTSERV@LISTS.MITRE.ORG
 - In body of the email type:
SUBSCRIBE DII-COE-NTAG-LIST FirstName
LastName
- To send a message to all the people currently subscribed to the list, just send email to:
DII-COE-NTAG-LIST@LISTS.MITRE.ORG.

Task Plan Areas

1. General Tasks
2. Microsoft Related Tasks
3. COE Documentation Updates
4. Windows COE Kernel Evaluations
5. Windows 2000 & XP Impact Evaluations
6. Windows .NET Impact Evaluations

Task Plan - Ongoing Tasks

- NTAG Input to Application Specifications
- Windows 2000 R&D Wish List
- Emerging Technologies
- Develop Reduced Light/Night Operations Specifications for COE NT-based Platforms
- Heterogeneous Environments

Task Plan - New Tasks

1.3 Define/Update COE Segmentation Processes for Windows .NET

Task: Develop Guidance and recommendations for NTAG consideration on the subject of segmenting process for segments built using .NET technologies. This investigation should include the development of processes and procedures for .NET based segments designed to be installed on systems from local media (CD-ROM, Floppy), over the network, via a web site, and as web site components (web services). Team will brief summary guidance to NTAG. If directed, team will lead interaction with the COE Engineering office to obtain DISA concurrence and publish results on NTAG pages.

Task Plan - New Tasks (2)

2.4 Internet Protocol v6

Task: Team will investigate the Internet Protocol v6 implementation in the Windows operating systems for incorporation into the COE. The team will make presentations and recommendations to the NTAG on the best use of new technology in the heterogeneous environment of the COE.

Task Plan - New Tasks (3)

3.5 Develop/Update I&RTS V4.x for Windows XP and .NET

Task: Team will have the overall responsibility of working with DISA, CINC, Services and Agencies to identify changes necessary to the I&RTS to improve Windows platform operations, development requirements, and accommodate the incorporation of Windows XP and .NET. The team will be responsible for responsible for document preparation. Document status updates will be given to the NTAG on a regular basis.

Task Plan - New Tasks (4)

3.6 Update I&RTS v4.x Compliance Checklist for Windows XP and .NET

Task: Team will investigate and make recommendations concerning the need to update the COE Compliance Checklist for Windows XP and .NET as it is contained in the I&RTS. The team will make recommendations as to how the Logo program specifications should be assigned to specific compliance levels and also how segment compliance should be evaluated with this information. All results of the investigation will be briefed to the NTAG and the team will be responsible for coordinating any required changes with the COE Engineering office.

Task Plan - New Tasks (5)

3.7 Update I&RTS V4.x Security Chapter for Windows XP and .NET

Task: Team will have the overall responsibility of working with DISA, CINC, Services and Agencies to identify changes necessary to the I&RTS to reflect the appropriate security model, infrastructure, protocols, schemas, and requirements for Windows XP and Windows NT/2000/XP with the .NET runtime as a COE Platforms. The team will be responsible for document preparation. Document status updates will be given to the NTAG on a regular basis.

Task Plan - New Tasks (6)

3.8 Develop Automatic Test Tools for I&RTS V4.2

Task: Using 'TestFoundation' as a baseline, the team will automate the Windows 2000, Logo Requirements Test Procedure using the Rational Robot test tool. Later, the group will incorporate the rest of the requirements called out in I&RTS V4.2 (the COE specific items) into the test suite. The products will be made available to COE developers and DISA test facilities. Progress and issues will be briefed periodically to the NTAG. As an intermediate task, the team will transform the current VPA based Compliance Worksheet (I&RTS V4.0) to V4.2.

Task Plan - New Tasks (7)

4.2 Use of .NET Assemblies

Task: Team will develop recommendations for the incorporation of .NET Assemblies into the COE. The team will prepare recommendations on the use of assemblies to build components and the components into segments and the situations in which the use of this technology can be best exploited. Assembly component integration, use of Assembly based components in mobile code, Assembly registration requirements and Assembly management are to be addressed in this investigation. The recommendations will be briefed to the NTAG.

Task Plan - New Tasks (8)

4.3 Design and Implementation Plan for a Commercialized Windows Kernel

Task: Team will develop a draft plan for the design and implementation for the Windows based 5x kernel. Emphasis will be on development of a kernel that is:

- a. Maximize use of native commercial Windows operating systems technologies, features and functions.
- b. Meet I&RTS requirements
- c. Maximize ability to work in a heterogeneous environment

The team will:

- a. Prepare recommended changes to the I&RTS, COE Architecture, SIG and SDG

Task Plan - New Tasks (9)

4.3 Design and Implementation Plan for a Commercialized Windows Kernel (Con't)

- b. Develop a prototype Windows platform 5x kernel
- c. Develop a list of differences and commonalities with Windows platform 4x kernel implementation
- d. Develop a list of differences and commonalities with UNIX platform 4x kernel implementation
- e. Brief the NTAG and the team will
- f. Lead the effort to obtain DISA concurrence on the possibility of adopting the 5x kernel prototype into the COE environment.

Task Plan - New Tasks

(10)

5.4 Fast User Switching

Task: Team will investigate the Fast User Switching technology built in to Windows XP Professional. The Team will concentrate on investigating operational and security configurations for COE systems with Windows XP Professional with the Fast User Switching enabled. The team will make presentations, demonstrations and recommendations to the NTAG on the best use of new technology in the COE. The team will also lead efforts to obtain concurrence from the COE Chief Engineer on the incorporation of the new technology and corresponding configuration into the COE.

Task Plan - New Tasks

(11)

6.1 .NET Security Model

Task: Team will study the new security model that will be delivered with Windows .NET client and server runtime which include such topics as Policies for Assembly, Application, Machine, Domain, Public Key Infrastructure (PKI), WIN32 Crypto API, Security Configuration Editor, Secure Channel, Authenticode and Kerberos. Team will develop recommendations for incorporation strategies for these technologies into the COE. Emphasis of the team's work will be to understand these security features and then make presentations and demonstrations to the NTAG on the best use of the new security technologies in the heterogeneous environment of the COE. The team will prepare recommendations on the use of these technologies for COE platforms, including a proposed security guide and revised security chapter for the I&RTS. The recommendations will be briefed to the NTAG and the team will lead the effort to obtain DISA concurrence on the use of Windows .NET security features in the COE.

Task Plan - New Tasks

(12)

6.3 .NET Installation Technologies

Task: Team will gather requirements from the Services and Agencies for installation of .NET assemblies and mission-applications based on assemblies on to Windows based COE operating systems in use or planned for use by the COE. Emphasis of the team's work will be to understand the future requirements for segments built as .NET Assemblies and integration with the COE Java installer. The team will make presentations to the NTAG on consolidated requirements of future COE kernels and will be responsible for coordinating final recommendations to the COE Chief Engineer. Documentation generated by this effort will be placed on the NTAG web pages for widest possible dissemination and comment.

Task Plan - New Tasks

(13)

6.4 .NET in a Heterogeneous COE Environment

Task: The team will study the utility of COE developers/users bundling functionality into Web Services. This would enable client applications to reuse the software, using XML and COTS network protocols for access. The group will identify the issues concerning interoperability, security, directory services, and administration. Differences between .NET Web Services and the Sun ONE approach will be highlighted. The team will make presentation(s) to the NTAG, which summarize significant issues identified and provide recommendations for their resolution.